**3. Requires a proper operating environment**

The allowable temperature range for operation of this camera is between -20℃ to 50℃.

**4. Check the power source voltage.**

The power source voltage should be within the specified range.

**5. Object and liquid entry**

Never push objects of any kind into the camera as this may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.

**6. Ground connection is needed for this camera**

When using the camera in the lightning areas, users need to install lightning protection facilities, or unplug the power supply and cable to prevent surge damage to the camera.

**7. Servicing**

Do not attempt to service this camera yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all services to qualified servicing personnel.

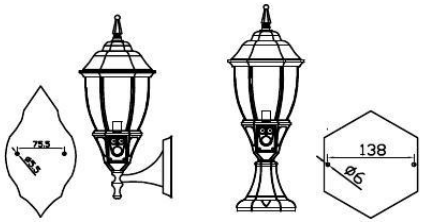
## Overhaul for Simple Troubles:

| Situations | Solutions |
|---|---|
| No image on the screen | Check the power supply of the monitor and camera to ensure the correct connection of voltage and polarity. |
| Unclear image on the screen | Check if the lens is cleaned or not. If not, cleaning should be done by using a very fine soft cloth to carefully remove any fingerprints or dust. After that, adjust lens focus again. |
| The camera can not work normally, the shell is very hot, with black lines appear on the screen | Check whether the camera is connected correctly or not. If the connection is right, please switch off the device as soon as possible and contact our after-sales service immediately. |
| Screen flicker strongly | Check whether the camera is toward the sunlight or daylight lamp or not. If there is too much light on the display screen, please adjust the camera angle and position again. |



# User Manual

# Courtyard Lamp Type IR Camera（TS Series）




Wall-mount Seat-mount

Thanks for using our products. Please read this manual carefully before installation.

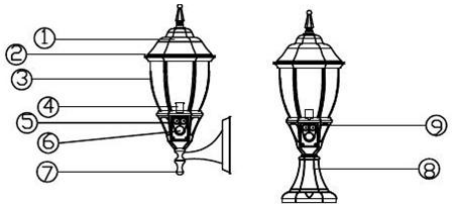
**Warning:** to avoid electrical accident, non-professional please do not disassemble this product.

**Attention**

Be careful of the risk of electric shock

Attention:
It’s forbidden to disassemble this camera by non-professional.

## Structure:



**1 protective shield, 2 installation screws of shield, 3 glass frame,**

**4 lamp holder, 5 IR LEDs, 6 lens, 7 wall-mount bracket,**

**8 seat-mount bracket, 9 vertical angle adjusting screws**

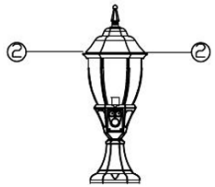


## Main Features:

- ❖ It's combined surveillance with lighting.
- ❖ It matches to various analog and IP cameras.
- ❖ 2pcs IR Array LEDs, IR distance: 20~30M.

## Installation Instruction:

**Lamp installation:**

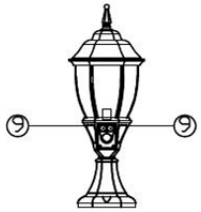


Step 1: disassemble the screws ( 2 ) of the shield.

Step 2: take off the housing cover and screws on the lamp and install required lamp.

Step 3: assemble the shield and fasten the screws.

**Adjusting the vertical angle:**



Step 1: loosen the adjusting screws ( 9 ).

Step 2: rotate the camera to required angle.

Step 3: fasten the adjusting screws.

| Camera and lens | |
|---|---|
| Image Sensor | Aptina AR0330 |
| Lens | Default: 6mm Optional: 4/8 /12mm Lens |
| Minimum Illumination | 0 Lux / IR ON |
| Auto Control | Dual Filter Switch |
| Video and Audio | |
| Video Compression | H.264 Compression |
| Video Profile | 2048×1536@15;1920x1080@30 ;1280x960@30; 1280x720@30; 1024x768@30 |
| Frame Rate | 1~30 fps |
| Video Streaming | Dual stream |
| Audio Compression | N/A |
| Network | |
| Protocol | RTSP/FTP/SMTP/DHCP/DDNS |
| Security | Multi-level user access control with password protection |
| Users | Multi clients on-line |
| IR | |
| Wavelength | 850nm |
| IR Distance | 20meters |
| System integration | |
| API | N/A |
| Alarm Mode | Motion Detection; SMTP;FTP |
| Networking | RJ 45 10M/100Mbps |
| Other | |
| Power input | DC 12V |
| Interface | RJ 45<br>DC 12V jack |
| Power/Consumption | Lighting AC100V~AC240V 9-40W;<br>CameraDC12V2A/5W |
| Operating Temperature | -10 degree to 55 degree |
| Operating Humidity | 10% ~ 85% (non-condensing) |
| IP Grade | IP65 |
| Dimension | Wall mount 272mm x 563(H)mm / Pole mount245mm x 646(H)mm |
| Net weight | 1900g |

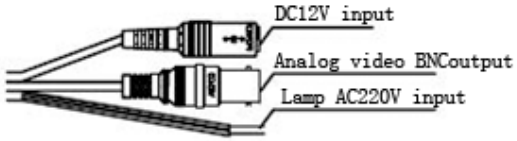
## Connection type:

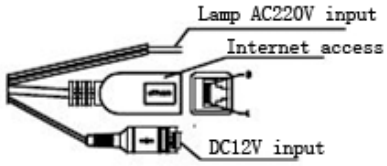
Power supply: AC220V for lamp

DC12V for camera and IR LEDs.

Video output type: analog=BNC

IP = internet access






## Specification:

## Attention:

**1. Never keep the camera toward the sun or under water for long time**

Do not expose the camera to the sun or to strong light or under water for long time as this may damage the pick-up device.

**2. Handle this camera with care**

Avoid any shock or bumping of the camera. Improper handling could damage the camera.